12/15/86 AP912-2

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE December 8 1986

Contact: David L. Yowell
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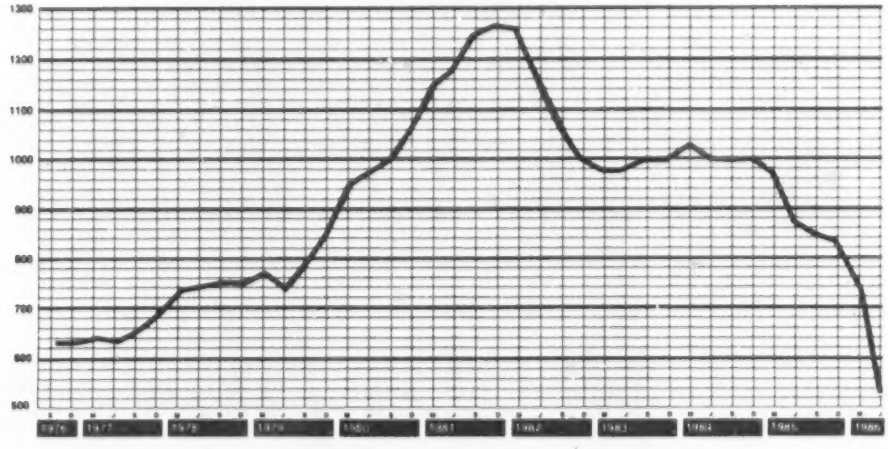
INTERNATIONAL SEISMIC CREW COUNT

WORLDWIDE SEISMIC OIL AND GAS EXPLORATION CREW AND VESSEL TOTAL
CONTINUES TO DECREASE SIGNIFICANTLY DURING SECOND QUARTER OF 1986

Seismic exploration for oil and gas decreased for the sixth consecutive quarter with a total of 529 seismic land crews and marine vessels active. The number of land crews decreased by 196 from the March, 1986 total of 654, and the marine crew total decreased by 14 for a net decrease of 210 crews from the March total of 739 crews and vessels active.

The international survey reflects data reported on seismic oil exploration activity by 96 private and governmental crew operators around the world. Special significance is attached to the figures since seismic crew activity is recognized as the leading indicator of all petroleum exploration activity.

INTERNATIONAL SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



INTERNATIONAL SEISMIC CREW COUNT, JUNE, 1986

Geographically, seismic exploration for oil and gas during June, 1986 was reported as follows (first quarter, March, 1986 figures are shown in parentheses):

	UNITED STATES			CANADA	
	Land	Marine		Land	Marine
50 Contractors:	140 (185)	14 (23)	18 Contractors:	20 (96)	1 (0)
8 Oil Companies:	22 (27)	4 (5)	1 Oil Company:	1 (4)	0 (0)
1 Government:	0 (0)	0 (0)			
Totals:	162 (212)	18 (28)	Totals:	21 (100)	1 (0)

(OVER)

MEXICO

	Land	Marine
4 Contractors:	21 (32)*	0 (0)*
1 Government:	5* (5)*	0* (0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	26* (37)*	0* (0)*

EUROPE

	Land	Marine
13 Contractors:	45 (59)*	30 (29)*
1 Government:	2 (2)	1 (0)
3 Oil Companies:	16 (16)*	0 (0)
Totals:	63 (77)*	31 (29)*

AFRICA

	Land	Marine
9 Contractors:	35 (39)	4 (6)
2 Governments:	11* (15)*	0* (0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	46* (54)*	4* (6)*

CENTRAL & SOUTH AMERICA

	Land	Marine
8 Contractors:	35 (37)	5 (6)
4 Governments:	16 (15)*	0 (0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	51 (52)*	5 (6)*

MIDDLE EAST

	Land	Marine
7 Contractors:	22 (22)	2 (5)
3 Governments:	11* (8)*	0* (0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	33* (30)*	2* (5)*

FAR EAST

	Land	Marine
12 Contractors:	46 (59)*	9 (10)*
2 Governments:	7 (33)*	0 (1)*
1 Oil Company:	3 (0)	1 (0)
Totals:	56 (92)*	10 (11)*

JUNE TOTALS:

	Land Crews	Marine Vessels
United States:	162 (212)	18 (28)
Canada:	21 (100)	1 (0)
Mexico:	26* (37)*	0* (0)*
Central & South America:	51 (52)*	5 (6)*
Europe:	63 (77)*	31 (29)*
Middle East:	33* (30)*	2* (5)*
Africa:	46* (54)*	4* (6)*
Far East:	56 (92)*	10 (11)*
Totals:	458* (654)*	71* (85)*
Total Crews and Vessels:	529* (739)*	

*These totals include estimates from informed industry sources of additional unreported crews and vessels.

SEG's International Seismic Crew Count is financed in part by a grant from the International Association of Geophysical Contractors.

2/20/87 A8912-2

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

February 9, 1987

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INTERNATIONAL SEISMIC CREW COUNT

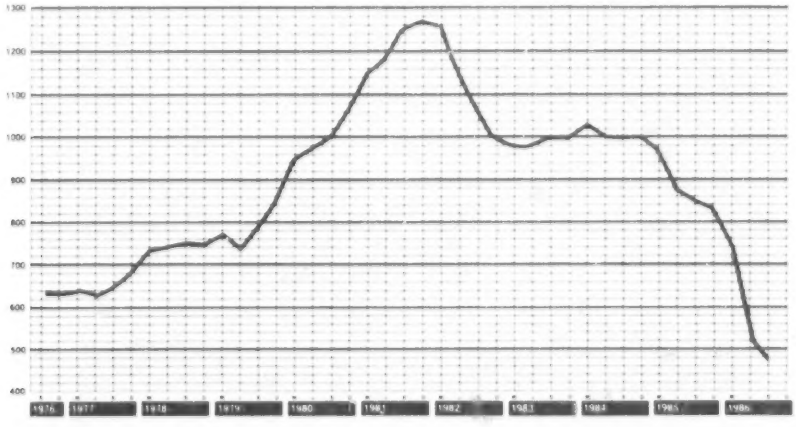
WORLDWIDE SEISMIC OIL AND GAS EXPLORATION CREW AND VESSEL TOTAL CONTINUES TO DECREASE SIGNIFICANTLY DURING THIRD QUARTER OF 1986

Seismic Exploration for oil and gas decreased for the seventh consecutive quarter with a total of 474 seismic land crews and marine vessels active. The number of land crews decreased by 43 from the June, 1986 total of 453+, and the marine crew total decreased by seven for a net decrease of fifty crews from the June total of 524+ crews and vessels active.

The international survey reflects data reported on seismic oil exploration activity by 88 private and governmental crew operators around the world. Special significance is attached to the figures since seismic crew activity is recognized as the leading indicator of all petroleum exploration activity.

+Revised total

INTERNATIONAL SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



INTERNATIONAL SEISMIC CREW COUNT, SEPTEMBER, 1986

Geographically, seismic exploration for oil and gas during September, 1986 was reported as follows (second quarter, June, 1986 figures are shown in parentheses):

	UNITED STATES			CANADA	
	Land	Marine		Land	Marine
43 Contractors:	114 (140)	20 (14)	11 Contractors:	16 (20)	1 (1)
7 Oil Companies:	17 (22)	4 (4)	0 Oil Companies:	0 (1)	0 (0)
1 Government:	0 (0)	0 (0)			
Totals:	131 (162)	24 (18)	Totals:	16 (21)	1 (1)

(OVER)

MEXICO

	Land	Marine
4 Contractors:	21 (21)	0 (0)
1 Government:	5* (5)*	0* (0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	26* (26)*	0* (0)*

EUROPE

	Land	Marine
11 Contractors:	48 (45)	22 (30)
2 Governments:	5 (2)	1 (1)
3 Oil Companies:	16 (16)	0 (0)
Totals:	69 (63)	23 (31)

AFRICA

	Land	Marine
8 Contractors:	24 (35)	3 (4)
2 Governments:	15* (11)*	0* (0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	39* (46)*	3* (4)*

CENTRAL & SOUTH AMERICA

	Land	Marine
9 Contractors:	26 (35)	4 (5)
4 Governments:	16 (16)	0 (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	42 (51)	4 (5)

MIDDLE EAST

	Land	Marine
8 Contractors:	22 (22)	4 (2)
3 Governments:	11 (11)*	0 (0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	33 (33)*	4 (2)*

FAR EAST

	Land	Marine
12 Contractors:	46* (46)	2* (9)
2 Governments:	5* (7)	2* (0)
1 Oil Company:	3 (3)	1 (1)
Totals:	54* (56)	5* (10)

SEPTEMBER TOTALS:

	Land Crews	Marine Vessels
United States:	131 (162)	24 (18)
Canada:	16 (16)	1 (1)
Mexico:	26* (26)*	0* (0)*
Central & South America:	42 (51)	4 (5)
Europe:	69 (63)	23 (31)
Middle East:	33 (33)*	4 (2)*
Africa:	39* (46)*	3* (4)*
Far East:	54* (56)	5* (10)
Totals:	410* (453)*+	64* (71)*
Total Crews and Vessels:	474* (524)*+	

+Revised total

*These totals include estimates from informed industry sources of additional unreported crews and vessels.

SEG's International Seismic Crew Count is financed in part by a grant from the International Association of Geophysical Contractors.

A8912-2
4/22/87

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE April 13, 1987

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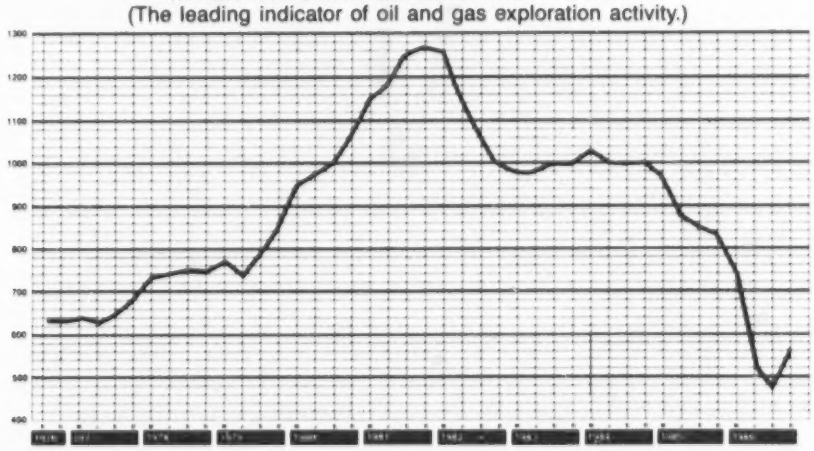
INTERNATIONAL SEISMIC CREW COUNT

WORLDWIDE SEISMIC OIL AND GAS EXPLORATION CREW AND VESSEL TOTAL SHOWS A DRAMATIC INCREASE DURING THE FOURTH QUARTER OF 1986

Seismic exploration for oil and gas increased dramatically during the fourth quarter of 1986 with a total of 569 crews and vessels active. The number of land crews increased by 100 from the September, 1986 total of 410, and the marine crew total decreased by five for a net increase of 95 crews from the September total of 474 crews and vessels active. The large increase came in two areas, Canada and the Far East. The Far East activity is attributed mainly to the end of the rainy season in India.

The international survey reflects data reported on seismic oil exploration activity by eighty-seven private and governmental crew operators around the world. Special significance is attached to the figures since seismic crew activity is recognized as the leading indicator of all petroleum exploration activity.

INTERNATIONAL SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



INTERNATIONAL SEISMIC CREW COUNT, DECEMBER, 1986

Geographically, seismic exploration for oil and gas during December, 1986 was reported as follows (third quarter, September, figures are shown in parentheses):

	UNITED STATES			CANADA	
	Land	Marine		Land	Marine
39 Contractors:	121 (114)	15 (20)	23 Contractors:	78 (16)	0 (1)
7 Oil Companies:	18 (17)	3 (4)	1 Oil Company:	2 (0)	0 (0)
1 Government:	0 (0)	0 (0)			
Totals:	139 (131)	18 (24)	Totals:	80 (16)	0 (1)

(OVER)

MEXICO

	Land	Marine
4 Contractors:	21 (21)	0 (0)
1 Government:	5*(5)*	0*(0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	26*(26)*	0*(0)*

CENTRAL & SOUTH AMERICA

	Land	Marine
8 Contractors:	32 (26)	3 (4)
4 Governments:	16 (16)	0 (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	48 (42)	3 (4)

EUROPE

	Land	Marine
13 Contractors:	42 (48)	20 (22)
2 Governments:	0 (5)	0 (1)
4 Oil Companies:	8 (16)	1 (0)
Totals:	50 (69)	21 (23)

MIDDLE EAST

	Land	Marine
7 Contractors:	28 (22)	4 (4)
2 Governments:	8 (11)	0 (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	36 (33)	4 (4)

AFRICA

	Land	Marine
7 Contractors:	24 (24)	4 (3)
2 Governments:	14 (15)*	0 (0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	38 (39)*	4 (3)*

FAR EAST

	Land	Marine
12 Contractors:	45*(46)*	6*(2)*
3 Governments:	45 (5)*	2 (2)*
1 Oil Company:	3*(3)	1*(1)
Totals:	93*(54)*	9*(5)*

DECEMBER TOTALS:

	Land Crews	Marine Vessels
United States:	139 (131)	18 (24)
Canada:	80 (16)	0 (1)
Mexico:	26* (26)*	0* (0)*
Central & South America:	48 (42)	3 (4)
Europe:	50 (69)	21 (23)
Middle East:	36 (33)	4 (4)
Africa:	38 (39)*	4 (3)*
Far East:	93* (54)*	9* (5)*
Totals:	510* (410)*	59* (64)*
Total Crews and Vessels:	569* (474)*	

*These totals include estimates from informed industry sources of additional unreported crews and vessels.

SEG's International Seismic Crew Count is financed in part by a grant from the International Association of Geophysical Contractors.

7/21/87 A8912-2

SEG news release

Society of Exploration Geophysicists

July 10, 1987

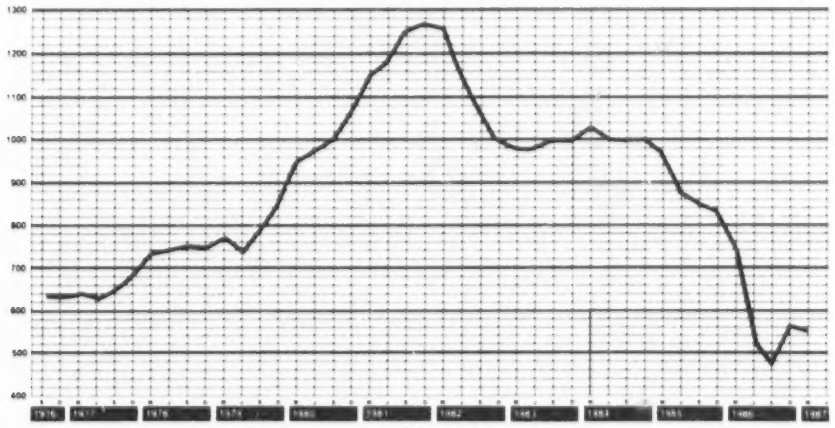
WORLDWIDE SEISMIC OIL AND GAS EXPLORATION CREW AND VESSEL TOTAL SHOWS A SMALL DECREASE DURING THE FIRST QUARTER OF 1987

Seismic exploration for oil and gas decreased during the first quarter of 1987 with a total of 555 crews and vessels active. The number of land crews decreased by nine from the December, 1986 total of 510, and the marine crew total decreased by five for a net decrease of fourteen from the December total of 569 crews and vessels active. Increases were reported in Canada and the Far East.

The international survey reflects data reported on seismic oil exploration activity by ninety-four private and governmental crew operators around the world. Special significance is attached to the figures since seismic crew activity is recognized as the leading indicator of all petroleum exploration activity.

INTERNATIONAL SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



INTERNATIONAL SEISMIC CREW COUNT, MARCH 1987

Geographically, seismic exploration for oil and gas during March, 1987 was reported as follows (fourth quarter, December 1986, figures are shown in parentheses):

	UNITED STATES			CANADA	
	Land	Marine		Land	Marine
36 Contractors:	118 (121)	15 (15)	28 Contractors:	82 (78)	0 (0)
7 Oil Companies:	14 (18)	3 (3)	1 Oil Company:	2 (2)	0 (0)
1 Government:	0 (0)	0 (0)			
Totals:	132 (139)	18 (18)	Totals:	84 (80)	0 (0)

(OVER)

MEXICO

	Land	Marine
4 Contractors:	19 (21)	0 (0)
1 Government:	5* (5)*	0* (0)*
0 Oil Companies:	0 (0)	0 (0)
Totals:	24* (26)*	0* (0)*

CENTRAL & SOUTH AMERICA

	Land	Marine
8 Contractors:	30 (32)	3 (3)
4 Governments:	13* (16)	0* (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	43* (48)	3* (3)

EUROPE

	Land	Marine
12 Contractors:	33 (42)	16 (20)
1 Government:	1 (0)	0 (0)
4 Oil Companies:	14 (8)	1 (1)
Totals:	48 (50)	17 (21)

MIDDLE EAST

	Land	Marine
7 Contractors:	25 (28)	3 (4)
2 Governments:	8* (8)	0* (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	33* (36)	3* (4)

AFRICA

	Land	Marine
8 Contractors:	26 (24)	4 (4)
2 Governments:	11 (14)	0 (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	37 (38)	4 (4)

FAR EAST

	Land	Marine
10 Contractors:	55 (45)*	6 (6)*
3 Governments:	44 (45)	2 (2)
1 Oil Company:	1 (3)*	1 (1)*
Totals:	100 (93)*	9 (9)*

MARCH TOTALS:

	Land Crews	Marine Vessels
United States:	132 (139)	18 (18)
Canada:	84 (80)	0 (0)
Mexico:	24* (26)*	0* (0)*
Central & South America:	43* (48)	3* (3)
Europe:	48 (50)	17 (21)
Middle East:	33* (36)	3 (4)
Africa:	37 (38)	4 (4)
Far East:	100 (93)*	9 (9)*
Totals:	501* (510)*	54* (59)*
Total Crews and Vessels:	555* (569)*	

*These totals include estimates from informed industry sources of additional unreported crews and vessels.

SEG's International Seismic Crew Count is financed in part by a grant from the International Association of Geophysical Contractors.

"Middle East" includes the eastern Mediterranean area eastward through Pakistan. "Far East" for this survey commences with India and extends eastward through the Pacific Ocean.